A Tutorial on Support Vector Machines for Pattern Recognition (1998) (Make Corrections) (245 citations)

Christopher J. C. Burges
Data Mining and Knowledge Discovery

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Abstract: The tutorial starts with an overview of the concepts of VC dimension and structural risk minimization. We then describe linear Support Vector Machines (SVMs) for separable and non-separable data, working through a non-trivial example in detail. We describe a mechanical analogy, and discuss when SVM solutions are unique and when they are global. We describe how support vector training can be practically implemented, and discuss in detail the kernel mapping technique which is used to construct... (Update)

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.... **Machine A Support Vector Machine (SVM) is based on statistical error minimization techniques applied to a machine learning domain [16].** SVMs work by computing an optimal hyperplane that can linearly separate (in one case) two classes of data. These hyperplanes simplify to a...

...e#ciency. **We evaluate three popular classification methods, Decision trees [24] D tree) naive Bayes [21] NB) and Support Vector Machines [4] (SVMs) on each of these four criteria next.** Accuracy Our classification problem is particularly challenging because deduplication...

Cited by: More
Support Vector Machines for Broad Area Feature.. - Simon Perkins Neal (Correct)
Improved Kernel Learning Using Smoothing Parameter Based.. - Ali, Abraham (Correct)
Color Features for Tracking Non-Rigid Objects - Katja Nummiaro Esther (Correct)

Similar documents (at the sentence level):
59.6%: A Tutorial on Support Vector Machines for Pattern Recognition - Burges (1998) (Correct)

Similar documents based on text: More All
0.4: Uniqueness of the SVM Solution - Burges, Crisp (1999) (Correct)
0.3: Support Vector Machines And The Bayes Rule In Classification - Lin (1999) (Correct)
0.3: Extensions to the Support Vector Method - Weston (1999) (Correct)

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56: The Nature of Statistical Learning Theory (context) - Vapnik - 1995 **Book Details from Amazon or Barnes & Noble**
32: Statistical Learning Theory (context) - Vapnik
30: Support-Vector Networks - Cortes, Vapnik - 1995

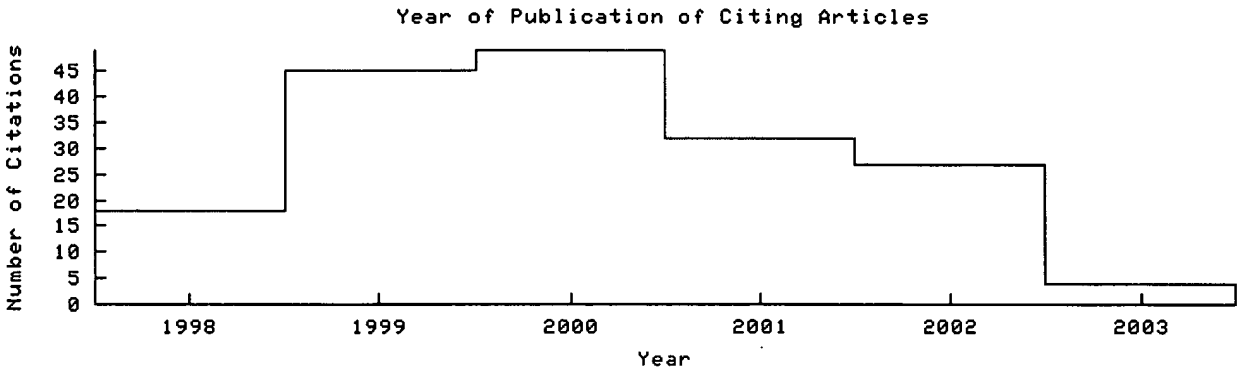
BibTeX entry: (Update)

C.J.C. Burges. A tutorial on support vector machines for pattern recognition. Data Mining and Knowledge Discovery, 2(2):955-974, 1998. http://citeseer.ist.psu.edu/burges98tutorial.html More

```
@article{ burges98tutorial,
    author = "Christopher J. C. Burges",
    title = "A Tutorial on Support Vector Machines for Pattern Recognition",
    journal = "Data Mining and Knowledge Discovery",
    volume = "2",
    number = "2",
    pages = "121-167",
```

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    year = "1998",
    url = "citeseer.ist.psu.edu/burges98tutorial.html" }
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Citations not processed or no citations identified.



The graph only includes citing articles where the year of publication is known.

Documents on the same site (http://guppy.mpe.nus.edu.sg/~mpessk/svm/svm.html):
Improvements to SMO Algorithm for SVM Regression - Shevade, Keerthi.. (1999) (Correct)
Improvements to SMO Algorithm for SVM Regression - Shevade, Keerthi.. (1999) (Correct)

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J.L. Blue, G.T. Candela, P.J. Grother, R. Chellappa, C.L. Wilson

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Abstract: In this paper we evaluate the classification accuracy of four statistical and three neural network classifiers for two image based pattern classification problems. These are fingerprint classification and optical character recognition (OCR) for isolated handprinted digits. The evaluation results reported here should be useful for designers of practical systems for these two important commercial applications. For the OCR problem, the Karhunen-Lo`eve (K-L) transform of the images is used to... (Update)

Context of citations to this paper: More

...among them is their intent to solve a visual pattern recognition problem. **A good paper on fingerprint and OCR applications is [6], where the authors demonstrate the superior performance of NN based classifiers (error rates of about 8) over the classical statistical**...

.... **and they have been used since then in both forensic (Cummins and Midlo, 1943) and automated matching (Blue, Candela, Gruther, Chellapa, and Wilson, 1994; Hrechak and McHugh, 1990) These Galton features, or minutiae, contain unique information that enables their use**...

Cited by: More
Fast Full-Search Equivalent Nearest-Neighbour Search Algorithms - Chua (1999) (Correct)
Comparison of Statistical and Neural Classifiers and Their.. - Alpaydin, Gürgen (1996) (Correct)
Fingerprint Minutiae from Latent and Matching Tenprint Images - Garris, McCabe (Correct)

Similar documents (at the sentence level):
12.1%: Comparison of Handprinted Digit Classifiers - Grother, al. (1993) (Correct)
10.3%: Applied and - Computational Mathematics Division (Correct)
6.1%: Binary Decision Clustering for Neural Network Based OCR - Wilson, Grother, Barnes (1994) (Correct)

Active bibliography (related documents): More All
1.0: Fingerprint Features - Statistical Analysis and System.. - Roddy, Stosz (1999) (Correct)
0.5: Comparison of FFT Fingerprint Filtering Methods for.. - Watson, Candela, Grother (1994) (Correct)
0.5: A Real-time Matching System for Large Fingerprint Databases - Ratha, al. (1996) (Correct)

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Search Results -

Terms	Documents
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Database: US Pre-Grant Publication Full-Text Database
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L1	6,332,163.pn.	2	L1

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☐ 1. Document ID: US 20040066966 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 21 File: PGPB Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040066966
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040066966 A1

TITLE: Object finder for two-dimensional images, and system for determining a set of sub-classifiers composing an object finder

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schneiderman, Henry	Pittsburgh	PA	US	

US-CL-CURRENT: 382/159; 382/170, 382/224

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20040023674 A1

L3: Entry 2 of 21 File: PGPB Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023674
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040023674 A1

TITLE: System and method for classifying signals using timing templates, power templates and other techniques

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miller, Karl A.	Frederick	MD	US	

US-CL-CURRENT: 455/462; 455/445

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20030139654 A1

L3: Entry 3 of 21 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030139654
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030139654 A1

TITLE: System and method for recognizing user's emotional state using short-time monitoring of physiological signals

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kim, Kyung-Hwan	Kyungki-do		KR	
Bang, Seok-Won	Seoul		KR	
Kong, Dong-Geon	Busan		KR	

US-CL-CURRENT: 600/300

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20030108043 A1

L3: Entry 4 of 21 File: PGPB Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108043
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030108043 A1

TITLE: Multi-field classification using enhanced masked matching

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Liao, Heng	Burnaby		CA	

US-CL-CURRENT: 370/392

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20020194602 A1

L3: Entry 5 of 21 File: PGPB Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020194602
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020194602 A1

TITLE: Expert model recommendation method and system

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gutta, Srinivas V.R.	Buchanan	NY	US	
Schaffer, David J.	Wappingers Falls	NY	US	
Kurapati, Kaushal	Yorktown Heights	NY	US	

US-CL-CURRENT: 725/45; 345/744, 725/44

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 20020174095 A1

L3: Entry 6 of 21 File: PGPB Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020174095
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020174095 A1

TITLE: Very-large-scale automatic categorizer for web content

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lulich, Daniel P.	Portland	OR	US	
Guilak, Farzin G.	Beaverton	OR	US	

US-CL-CURRENT: 707/1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 6539352 B1

L3: Entry 7 of 21 File: USPT Mar 25, 2003

US-PAT-NO: 6539352
DOCUMENT-IDENTIFIER: US 6539352 B1

TITLE: Subword-based speaker verification with multiple-classifier score fusion weight and threshold adaptation

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sharma; Manish	Sommerset	NJ	08873	
Zhang; Xiaoyu	Piscataway	NJ	08854	
Mammone; Richard J.	Bridgewater	NJ	08807	

US-CL-CURRENT: 704/249; 704/250

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Ds

☐ 8. Document ID: US 6341369 B1

L3: Entry 8 of 21 File: USPT Jan 22, 2002

US-PAT-NO: 6341369
DOCUMENT-IDENTIFIER: US 6341369 B1

TITLE: Method and data processing system for specifying and applying rules to classification-based decision points in an application system

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Degenaro; Louis Ralph	White Plains	NY		
Ehnebuske; David Lars	Georgetown	TX		
McKee; Barbara Jane Alspach	Austin	TX		
Rasmus; Kevin Paul	Bloomington	IL		
Rouvellou; Isabelle Marie Catherine	New York City	NY		

US-CL-CURRENT: 717/117; 706/47

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Ds

☐ 9. Document ID: US 6317617 B1

L3: Entry 9 of 21 File: USPT Nov 13, 2001

US-PAT-NO: 6317617
DOCUMENT-IDENTIFIER: US 6317617 B1

TITLE: Method, computer program product, and system for the automated analysis of lesions in magnetic resonance, mammogram and ultrasound images

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gilhuijs; Kenneth	Chicago	IL		
Giger; Maryellen L.	Elmhurst	IL		

Bick; Ulrich Chicago IL

US-CL-CURRENT: 600/408; 128/922, 382/131, 600/411, 600/420, 600/427, 600/431, 600/443, 600/458, 706/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 10. Document ID: US 6272479 B1

L3: Entry 10 of 21 File: USPT Aug 7, 2001

US-PAT-NO: 6272479
DOCUMENT-IDENTIFIER: US 6272479 B1

TITLE: Method of evolving classifier programs for signal processing and control

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farry; Kristin Ann	Houston	TX	77546	
Fernandez; Julio Jaime	Suger Land	TX	77479	
Graham; Jeffrey Scott	Houston	TX	77064	

US-CL-CURRENT: 706/13; 700/213, 700/250, 706/14

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 11. Document ID: US 6238342 B1

L3: Entry 11 of 21 File: USPT May 29, 2001

US-PAT-NO: 6238342
DOCUMENT-IDENTIFIER: US 6238342 B1

TITLE: Ultrasonic tissue-type classification and imaging methods and apparatus

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feleppa; Ernest Joseph	Rye	NY		
Lizzi; Frederic Louis	Tenafly	NJ		
Liu; Tian	Princeton	NJ		

US-CL-CURRENT: 600/437

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 12. Document ID: US 5850470 A

L3: Entry 12 of 21 File: USPT Dec 15, 1998

US-PAT-NO: 5850470
DOCUMENT-IDENTIFIER: US 5850470 A

TITLE: Neural network for locating and recognizing a deformable object

DATE-ISSUED: December 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kung; Sun-Yuan	Princeton	NJ		
Lin; Shang-Hung	Princeton	NJ		
Lin; Long-Ji	Kendall Park	NJ		
Fang; Ming	Cranbury	NJ		

US-CL-CURRENT: 382/157; 382/116, 382/117, 382/118, 382/159, 706/20, 706/25

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 13. Document ID: US 5832181 A

L3: Entry 13 of 21 File: USPT Nov 3, 1998

US-PAT-NO: 5832181
DOCUMENT-IDENTIFIER: US 5832181 A

TITLE: Speech-recognition system utilizing neural networks and method of using same

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Shay-Ping Thomas	Long Grove	IL		

US-CL-CURRENT: 704/232; 704/236

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 14. Document ID: US 5812973 A

L3: Entry 14 of 21 File: USPT Sep 22, 1998

US-PAT-NO: 5812973
DOCUMENT-IDENTIFIER: US 5812973 A

TITLE: Method and system for recognizing a boundary between contiguous sounds for use with a speech recognition system

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Shay-Ping Thomas	Long Grove	IL		

US-CL-CURRENT: 704/253; 704/251, 704/255

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 15. Document ID: US 5734793 A

L3: Entry 15 of 21 File: USPT Mar 31, 1998

US-PAT-NO: 5734793
DOCUMENT-IDENTIFIER: US 5734793 A

TITLE: System for recognizing spoken sounds from continuous speech and method of using same

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Shay-Ping T.	Long Grove	IL		

US-CL-CURRENT: 704/232; 704/243, 706/20, 706/25

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 16. Document ID: US 5717914 A

L3: Entry 16 of 21 File: USPT Feb 10, 1998

US-PAT-NO: 5717914
DOCUMENT-IDENTIFIER: US 5717914 A

TITLE: Method for categorizing documents into subjects using relevance normalization for documents retrieved from an information retrieval system in response to a query

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Husick; Lawrence A.	Wayne	PA		
Schultz; John Michael	Bala Cynwyd	PA		
Weinberger; Marvin I.	Havertown	PA		

US-CL-CURRENT: 707/5; 345/440, 707/3, 707/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 17. Document ID: US 5638486 A

L3: Entry 17 of 21 File: USPT Jun 10, 1997

US-PAT-NO: 5638486
DOCUMENT-IDENTIFIER: US 5638486 A

TITLE: Method and system for continuous speech recognition using voting techniques

DATE-ISSUED: June 10, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Shay-Ping T.	Long Grove	IL		
Lindsey; Michael K.	Arlington Heights	IL		

US-CL-CURRENT: 704/236; 704/232, 704/254

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 18. Document ID: US 5596679 A

L3: Entry 18 of 21 File: USPT Jan 21, 1997

US-PAT-NO: 5596679
DOCUMENT-IDENTIFIER: US 5596679 A
** See image for Certificate of Correction **

TITLE: Method and system for identifying spoken sounds in continuous speech by comparing classifier outputs

DATE-ISSUED: January 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Shay-Ping T.	Long Grove	IL		

US-CL-CURRENT: 704/236; 704/232, 704/254

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 19. Document ID: US 5594834 A

L3: Entry 19 of 21 File: USPT Jan 14, 1997

US-PAT-NO: 5594834
DOCUMENT-IDENTIFIER: US 5594834 A

TITLE: Method and system for recognizing a boundary between sounds in continuous speech

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Shay-Ping T.	Long Grove	IL		

US-CL-CURRENT: 704/253; 704/251, 704/255

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 20. Document ID: WO 9613829 A1, US 5638486 A, AU 9532743 A

L3: Entry 20 of 21 File: DWPI May 9, 1996

DERWENT-ACC-NO: 1996-239681
DERWENT-WEEK: 199729
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TITLE: Continuous speech recognition system using voting techniques - having sequence of outputs for each classifier in each voting window, and generating voting sum corresp. to window, with greatest sum identifying spoken sound

INVENTOR: LINDSEY, M K; WANG, S T

PRIORITY-DATA: 1994US-0329394 (October 26, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9613829 A1	May 9, 1996	E	032	G10L005/06
US 5638486 A	June 10, 1997		018	G10L005/00
AU 9532743 A	May 23, 1996		000	G10L005/06

INT-CL (IPC): G10 L 5/00; G10 L 5/06

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 21. Document ID: WO 9613828 A1, US 5596679 A, AU 9532742 A

L3: Entry 21 of 21 File: DWPI May 9, 1996

DERWENT-ACC-NO: 1996-239680
DERWENT-WEEK: 199710
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Automated speech recognition system e.g. for voice-dial cellular telephone - has voting window which takes outputs from several classifiers and performs comparison to determine winning output with spoken sound identified by classifier generating greatest number of winning outputs

INVENTOR: WANG, S T

PRIORITY-DATA: 1994US-0329395 (October 26, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9613828 A1	May 9, 1996	E	030	G10L005/06
US 5596679 A	January 21, 1997		007	G10L005/00
AU 9532742 A	May 23, 1996		000	G10L005/06

INT-CL (IPC): G10 L 5/00; G10 L 5/06

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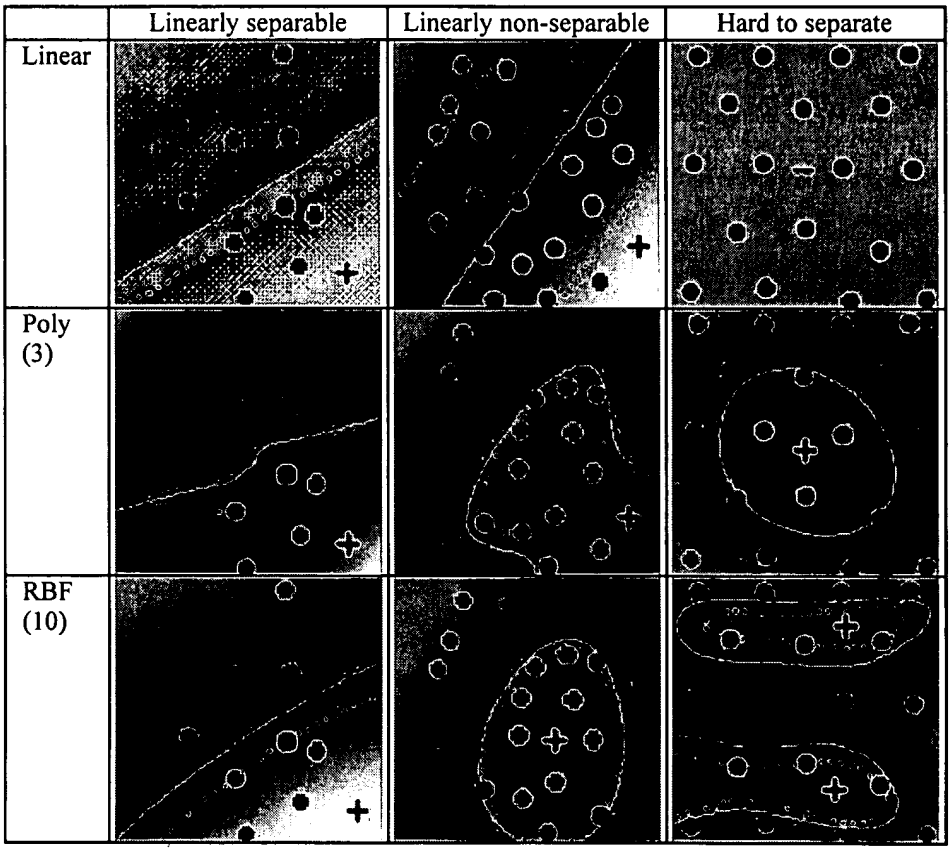
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These search terms have been highlighted: **pattern recognition classifiers**

Support Vector Machines for pattern recognition



Support Vector Machines (SVM) are binary **classifiers** of objects represented by points in $\mathbf{R}^n$. The foundations of SVM have been developed by Vapnik (1995). These pattern **classifiers** are gaining popularity due to a number of attractive features including a promising generalization performance. The formulation embodies the Structural Risk Minimization (SRM) principle, as opposed to the Empirical Risk Minimization (ERM) approach commonly employed within statistical learning methods. It is this difference which equips SVMs with an excellent potential to generalize. Since many real-world objects can be represented as points in $\mathbf{R}^n$, and multi-class **classifiers** can be built by employing arrays of SVMs, the technique is expected to be applicable to a great variety of classification problems. Feasibility and computational cost of such applications are separate issues, and ought to be considered on the case-by-case basis.

A feasibility of using SVMs for different tasks involving **pattern recognition** was studied. A review of SVM fundamentals and some applications is presented in the compact survey.

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pami.uwaterloo.ca/mkamel/Pattern_Recognition.html - 3k - Cached - Similar pages

ELEN E6880: Topics in Signal Processing: Statistical **Pattern** ...
... The topic of the course is Statistical **Pattern Recognition** and Classification ... including Bayesian decision theory and Bayes Networks; Linear **Classifiers**, such as ...
www.cvn.columbia.edu/courses/Spring2002/ELENE6880.html - 16k - Cached - Similar pages

icpr,International Conference on **Pattern Recognition** (ICPR'00) ...
... Giacinto, Fabio Roli, p. 2012 **Classifiers** for Dissimilarity-Based **Pattern Recognition**. Elzbieta Pekalska, Robert PW Duin, p. 2017 Constructing ...
csdl.computer.org/comp/proceedings/ icpr/2000/0750/02/0750toc.htm - 101k - Cached - Similar pages

Keith Price Bibliography Contents for chapter on pattern
... Combining **Classifiers**, Combinations: 14.1.5.2.1 Classifier Combination, Evaluation. 14.1.5.3 Decision Fusion. 14.1.6 King Sun Fu **Pattern Recognition** Papers. 14.2 ...
iris.usc.edu/Vision-Notes/bibliography/ contentspattern.html - 19k - Cached - Similar pages

[PDF] Advanced **Pattern Recognition** 8. Confidences and Combined ...
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20/5/2002 APR Course - Confidences and Combined **Classifiers** 8-1 Advanced **Pattern Recognition** 8. Confidences and Combined **Classifiers** x1 x2 A B x S 1 (x) = 0 S ...
www-ict.et.tudelft.nl/~duin/ftp/ PDFs/8-ConfClassComb.pdf - Similar pages

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CSE802 **Pattern Recognition**, Spring 2004, MSU
... Jan 13, Introduction to **Pattern Recognition** (Ch 1) Statistical **Pattern Recognition**: A Review. HW1 assigned. ... A note on comparing **classifiers**. HW7 assigned; HW6 due. ...

www.cse.msu.edu/~cse802/ - 13k - Cached - Similar pages

Evaluation of Pattern **Classifiers** for Fingerprint and OCR ...

... Chellappa, R. and Wilson, CL", title = "Evaluation of Pattern **Classifiers** for Fingerprint and {OCR} Applications", journal = "**Pattern Recognition**", volume = "27 ...
citeseer.ist.psu.edu/blue93evaluation.html - 29k - Cached - Similar pages

Support Vector Machines (SVM) for **pattern recognition**
... be represented as points in R n , and multi-class **classifiers** can be ... A feasibility of using SVMs for different tasks involving **pattern recognition** was studied. ...
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Pattern Recognition
... **Pattern Recognition**. (Undergraduate). Patterns and features, Bayesian **classifiers**, linear Bayesian **classifiers**, maximum likelihood and maximum aposteriori ...
cgi.di.uoa.gr/~idsp/patrec.html - 2k - Cached - Similar pages

Statistical **Pattern Recognition** Theory
... S. Uchimura, Y. Hamamoto, T. Kanaoka and S. Tomita: ``Considerations of sample size in designing **classifiers** for **pattern recognition**", Proc. of Asian Conf. ...
www.ir.csse.yamaguchi-u.ac.jp/ english/pattern_kiso_e.html - 7k - Cached - Similar pages

Pattern Recognition course
... **recognition**; Three learning paradigms; The sub-problems of **pattern recognition**; The basic structure of a **pattern recognition** system; Comparing **classifiers**. ...
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lcv.stat.fsu.edu/.../
PAPERS/combination_of_face_**classifiers**_for_person_identification.pdf - Similar pages

PATTERN RECOGNITION - Storming Media
... Analysis and Characterization of Pattern **Classifiers**; GASP - Generator of Adaptive Statistical **Pattern Recognition** Systems - 19 MAR 2003; ...
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Classifiers for Dissimilarity-Based **Pattern Recognition**
... **Recognition** (ICPR'00)-Volume 2 September 03 - 08, 2000 Barcelona, Spain. p. 2012 **Classifiers** for Dissimilarity-Based **Pattern Recognition**. PDF. ...
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8002303 **Pattern Recognition**
8002303 **Pattern Recognition**, Spring 2004, 3 cu ... Exercise 3: Neural networks (**classifiers** based on backpropagation and RBF) (Matlab functions: data_generator3.m ...
www.cs.tut.fi/sgn/m2obsi/patrec2004.htm - 5k - Apr 16, 2004 - Cached - Similar pages

Pattern Recognition System Design
... design, training, evaluation and application of a **pattern recognition** system are ... The principles underlying the various types of **classifiers**: density estimation ...
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Pattern Recognition Preprints 1998
... Mathematics Preprints 1998. **Pattern Recognition** and Fuzzy Systems. 98.09 : KUNCHEVA, LI. On Combining Multiple **Classifiers**. Abstract: ...
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IPS3083 **Pattern Recognition**
... we will cover the main topics of **pattern recognition**: feature selection ... is on classifier design which includes parametric and nonparametric **classifiers** with a ...
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Pattern Recognition and Neural Networks
... Combining **Classifiers** The ultimate goal of designing **pattern recognition** systems is

to achieve the best possible classification performance for the task at hand ...
www.ee.surrey.ac.uk/Research/VSSP/ report96/report/node19.html - 16k - Cached - Similar pages

Pattern Recognition Letters, Volume 19
... **recognition**. 53-56 Electronic Edition (link); Adam Józwik, Sebastiano B. Serpico, Fabio Roli: A parallel network of modified 1-NN and k-NN **classifiers** - ...
www.informatik.uni-trier.de/~ley/ db/journals/prl/prl19.html - 54k - Cached - Similar pages

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☐ 1. Document ID: US 20040066966 A1

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L20: Entry 1 of 32 File: PGPB Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040066966
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040066966 A1

TITLE: Object finder for two-dimensional images, and system for determining a set of sub-classifiers composing an object finder

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schneiderman, Henry	Pittsburgh	PA	US	

US-CL-CURRENT: 382/159; 382/170, 382/224

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20040049514 A1

L20: Entry 2 of 32 File: PGPB Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040049514
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040049514 A1

TITLE: System and method of searching data utilizing automatic categorization

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Burkov, Sergei	Los Altos	CA	US	

US-CL-CURRENT: 707/100

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 20040008867 A1

L20: Entry 3 of 32 File: PGPB Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040008867
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040008867 A1

TITLE: Imaging system, methodology, and applications employing reciprocal space optical design

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fein, Howard	Richmond Heights	OH	US	
Cartlidge, Andrew G.	Palm Beach Gardens	FL	US	

US-CL-CURRENT: 382/100; 359/326

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20040005547 A1

L20: Entry 4 of 32 File: PGPB Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040005547
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040005547 A1

TITLE: Biomarkers and expression profiles for toxicology

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boess, Franziska	Riehen		CH	
Suter-Dick, Laura	Bottmingen		CH	
Wolf, Detlef	Grenzach-Wyhlen		DE	

US-CL-CURRENT: 435/5; 435/6, 435/7.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20040003042 A1

L20: Entry 5 of 32 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040003042

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040003042 A1

TITLE: Methods and architecture for cross-device activity monitoring, reasoning, and visualization for providing status and forecasts of a users' presence and availability

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric J.	Kirkland	WA	US	
Koch, Paul	Toronto	WA	CA	
Apacible, Johnson T.	Redmond	WA	US	
Kadie, Carl M.	Bellevue		US	

US-CL-CURRENT: 709/204

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 20040002988 A1

L20: Entry 6 of 32 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002988
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002988 A1

TITLE: System and method for modeling subscriptions and subscribers as data

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seshadri, Praveen	Bellevue	WA	US	
Garrett, Phil	Woodinville	WA	US	
Sundaresan, Prakash	Seattle	WA	US	
Blanch, Robert F.	Clyde Hill	WA	US	
Knight, Holly	Woodinville	WA	US	
Dievendorff, Richard	Bellevue	WA	US	

US-CL-CURRENT: 707/102

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 7. Document ID: US 20040002972 A1

L20: Entry 7 of 32 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002972

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002972 A1

TITLE: Programming model for subscription services

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pather, Shyamalan	Seattle	WA	US	
Seshadri, Praveen	Bellevue	WA	US	
Garrett, Phil	Woodinville	WA	US	
Blanch, Robert F.	Clyde Hill	WA	US	
Knight, Holly	Woodinville	WA	US	
Dievendorff, Richard	Bellevue	WA	US	
Curley, Vincent H.	Bellevue	WA	US	

US-CL-CURRENT: 707/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 8. Document ID: US 20040002958 A1

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PGPUB-DOCUMENT-NUMBER: 20040002958
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002958 A1

TITLE: System and method for providing notification(s)

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seshadri, Praveen	Bellevue	WA	US	
Garrett, Phil	Woodinville	WA	US	
Blanch, Robert F.	Clyde Hill	WA	US	
Pather, Shyamalan	Seattle	WA	US	
Knight, Holly	Woodinville	WA	US	
Dievendorff, Richard	Bellevue	WA	US	
Curley, Vincent H.	Bellevue	WA	US	

US-CL-CURRENT: 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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PGPUB-DOCUMENT-NUMBER: 20040002931
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Platt, John C.	Bellevue	WA	US	
Burges, Christopher J.C.	Bellevue	WA	US	

US-CL-CURRENT: 706/46; 706/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 10. Document ID: US 20030236917 A1

L20: Entry 10 of 32 File: PGPB Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030236917
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030236917 A1

TITLE: Device specific pagination of dynamically rendered data

PUBLICATION-DATE: December 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gibbs, Matthew E.	Redmond	WA	US	
Niyogi, Shanku S.	Bellevue	WA	US	
Schechter, Greg D.	Seattle	WA	US	
Nye, Kristen Nilsen	Duvall	WA	US	

US-CL-CURRENT: 709/248

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 11. Document ID: US 20030233350 A1

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PGPUB-DOCUMENT-NUMBER: 20030233350
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030233350 A1

TITLE: System and method for electronic catalog classification using a hybrid of rule based and statistical method

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dedhia, Aatish	Mumbai		IN	
Anandan, P.	Mumbai		IN	
Singhania, Sunil	Mumbai		IN	
Sarkar, Avik	Mumbai		IN	

US-CL-CURRENT: 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 12. Document ID: US 20030225763 A1

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PGPUB-DOCUMENT-NUMBER: 20030225763
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030225763 A1

TITLE: Self-improving system and method for classifying pages on the world wide web

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guilak, Farzin G.	Beaverton	OR	US	
Lulich, Daniel P.	Portland	OR	US	
Rehfuss, Paul Stephen	Seattle	WA	US	

US-CL-CURRENT: 707/7

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☐ 13. Document ID: US 20030198368 A1

L20: Entry 13 of 32 File: PGPB Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198368
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030198368 A1

TITLE: Method for verifying users and updating database, and face verification system using the same

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kee, Seok-Cheol	Kyungki-do		KR	

US-CL-CURRENT: 382/118; 382/117, 382/190, 382/224

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 14. Document ID: US 20030149603 A1

L20: Entry 14 of 32 File: PGPB Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030149603
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030149603 A1

TITLE: System and method for operating a non-linear model with missing data for use in electronic commerce

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferguson, Bruce	Round Rock	TX	US	
Hartman, Eric	Austin	TX	US	

US-CL-CURRENT: 705/7; 706/22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 15. Document ID: US 20030140023 A1

L20: Entry 15 of 32 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030140023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030140023 A1

TITLE: System and method for pre-processing input data to a non-linear model for use in electronic commerce

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferguson, Bruce	Round Rock	TX	US	
Hartman, Eric	Austin	TX	US	

US-CL-CURRENT: 706/21; 706/15

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 16. Document ID: US 20030130993 A1

L20: Entry 16 of 32 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130993
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030130993 A1

TITLE: Document categorization engine

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mendelevitch, Ofer	Brisbane	CA	US	
Feit, Andrew	Cupertino	CA	US	
Kindwall, Christina	San Francisco	CA	US	
Weinberger, Benjy	San Mateo	CA	US	
Wilson, Wendy	Los Altos Hills	CA	US	

US-CL-CURRENT: 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 17. Document ID: US 20030130899 A1

L20: Entry 17 of 32 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130899
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030130899 A1

TITLE: System and method for historical database training of non-linear models for use in electronic commerce

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferguson, Bruce	Round Rock	TX	US	
Hartman, Eric	Austin	TX	US	

US-CL-CURRENT: 705/26

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 18. Document ID: US 20030110038 A1

L20: Entry 18 of 32 File: PGPB Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030110038
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030110038 A1

TITLE: Multi-modal gender classification using support vector machines (SVMs)

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sharma, Rajeev	State College	PA	US	
Yeasin, Mohammed	State College	PA	US	
Walavalkar, Leena A.	State College	PA	US	

US-CL-CURRENT: 704/270

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 19. Document ID: US 20030100998 A2

L20: Entry 19 of 32 File: PGPB May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100998
PGPUB-FILING-TYPE: republication-amended
DOCUMENT-IDENTIFIER: US 20030100998 A2

TITLE: SYSTEMS AND METHODS FOR MONITORING BEHAVIOR INFORMATICS

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brunner , Daniela	Bronx	New York	US	
Gondhalekar , Vijay	New York	New York	US	
Leahy , Emer	Bedford	New York	US	
LaRose , David	Pittsburgh	Pennsylvania	US	
Ross , William P.	Saranac Lake	New York	US	

US-CL-CURRENT: 702/19; 382/128, 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 20. Document ID: US 20030099395 A1

L20: Entry 20 of 32 File: PGPB May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030099395
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030099395 A1

TITLE: Automatic image orientation detection based on classification of low-level image features

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Yongmei	Hong Kong		HK	
Zhang, Hong-Jiang	Beijing		CN	

US-CL-CURRENT: 382/165; 382/228, 382/289

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 21. Document ID: US 20030097617 A1

L20: Entry 21 of 32 File: PGPB May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030097617
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030097617 A1

TITLE: Automatic classification of event data

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Goeller, Sunni K.	Redmond	WA	US	
Reus, Edward	Woodinville	WA	US	

US-CL-CURRENT: 714/39

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 22. Document ID: US 20030083822 A2

L20: Entry 22 of 32 File: PGPB May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030083822
PGPUB-FILING-TYPE: republication-amended
DOCUMENT-IDENTIFIER: US 20030083822 A2

TITLE: SYSTEMS AND METHODS FOR MONITORING BEHAVIOR INFORMATICS

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brunner , Daniela	Bronx	New York	US	
Gondhalekar , Vijay	New York	New York	US	
Leahy , Emer	Bedford	New York	US	

US-CL-CURRENT: 702/19; 705/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 23. Document ID: US 20030078850 A1

L20: Entry 23 of 32 File: PGPB Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030078850
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030078850 A1

TITLE: Electronic marketplace system and method using a support vector machine

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hartman, Eric	Austin	TX	US	
Ferguson, Bruce	Round Rock	TX	US	
Johnson, Doug	Austin	TX	US	
Hurley, Eric	Austin	TX	US	
Petrone, Lori	Austin	TX	US	

US-CL-CURRENT: 705/26

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 24. Document ID: US 20030046311 A1

L20: Entry 24 of 32 File: PGPB Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030046311
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030046311 A1

TITLE: Dynamic search engine and database

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baidya, Ryan	San Jose	CA	US	
Miftakhov, Valery	San Jose	CA	US	

US-CL-CURRENT: 707/200

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 25. Document ID: US 20030033587 A1

L20: Entry 25 of 32 File: PGPB Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033587
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030033587 A1

TITLE: System and method for on-line training of a non-linear model for use in electronic commerce

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferguson, Bruce	Round Rock	TX	US	
Hartman, Eric	Austin	TX	US	

US-CL-CURRENT: 717/104

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 26. Document ID: US 20030033194 A1

L20: Entry 26 of 32 File: PGPB Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033194
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030033194 A1

TITLE: System and method for on-line training of a non-linear model for use in electronic commerce

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ferguson, Bruce	Round Rock	TX	US	
Johnson, Doug	Austin	TX	US	
Hurley, Eric	Austin	TX	US	

US-CL-CURRENT: 705/10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 27. Document ID: US 20030028327 A1

L20: Entry 27 of 32 File: PGPB Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030028327
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030028327 A1

TITLE: Systems and methods for monitoring behavior informatics

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brunner, Daniela	Bronx	NY	US	
Gondhalekar, Vijay	New York	NY	US	
Leahy, Emer	Bedford	NY	US	
LaRose, David	Pittsburgh	PA	US	
Ross, William P.	Saranac Lake	NY	US	

US-CL-CURRENT: 702/19; 382/128, 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 28. Document ID: US 20030004652 A1

L20: Entry 28 of 32 File: PGPB Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004652
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030004652 A1

TITLE: Systems and methods for monitoring behavior informatics

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brunner, Daniela	Bronx	NY	US	
Gondhalekar, Vijay	New York	NY	US	
Leahy, Emer	Bedford	NY	US	

US-CL-CURRENT: 702/19; 705/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 29. Document ID: US 20020159627 A1

L20: Entry 29 of 32 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020159627
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020159627 A1

TITLE: Object finder for photographic images

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schneiderman, Henry	Pittsburgh	PA	US	
Kanade, Takeo	Pittsburgh	PA	US	

US-CL-CURRENT: 382/154

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 30. Document ID: US 20020138492 A1

L20: Entry 30 of 32 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020138492
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020138492 A1

TITLE: Data mining application with improved data mining algorithm selection

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kil, David	Gilroy	CA	US	

US-CL-CURRENT: 707/100

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 31. Document ID: US 6665653 B1

L20: Entry 31 of 32 File: USPT Dec 16, 2003

US-PAT-NO: 6665653
DOCUMENT-IDENTIFIER: US 6665653 B1

TITLE: Noise reduction for a cluster-based approach for targeted item delivery with inventory management

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Heckerman; David E.	Bellevue	WA
Chickering; D. Maxwell	Bellevue	WA

US-CL-CURRENT: 706/47; 713/183, 713/184

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw D

☐ 32. Document ID: US 6161130 A

L20: Entry 32 of 32 File: USPT Dec 12, 2000

US-PAT-NO: 6161130
DOCUMENT-IDENTIFIER: US 6161130 A
**** See image for Certificate of Correction ****

TITLE: Technique which utilizes a probabilistic classifier to detect "junk" e-mail by automatically updating a training and re-training the classifier based on the updated training set

DATE-ISSUED: December 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Horvitz; Eric	Kirkland	WA		
Heckerman; David E.	Bellevue	WA		
Dumais; Susan T.	Kirkland	WA		
Sahami; Mehran	Stanford	CA		
Platt; John C.	Bellevue	WA		

US-CL-CURRENT: 709/206; 707/5, 707/6, 709/205, 709/207, 709/240

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw D

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L19 and client	32

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